Contents Volume 81, 1994

Preface i
Palaeobotanical investigation of early Tertiary palaeoelevations in northeastern Nevada: initial results
D.A.R. Povey, R.A. Spicer and P.C. England 1
Atmospheric CO changes since the last glacial maximum: evidence from the stomatal density record of fossil leaves
D.J. Beerling and W.G. Chaloner 11
Distinguishing internal developmental characteristics from external palaeoenvironmental effects in fossil wood
J.L. Chapman 19
"Twig"– wood anatomical characters as palaeoecological indicators
I. Poole 33
C enriched Lower Carboniferous fossil plants from Donegal, Ireland: carbon isotope constraints on taphonomy, diagenesis and palaeoenvironment
T.P. Jones 53
A biomechanical method to distinguish between self-supporting and non self-supporting fossil plants
T. Speck 65
The paleoecology of high-latitude Eocene swamp forests from Axel Heiberg Island, Canadian High Arctic
D.R. Greenwood and J.F. Basinger 83
Patterns in tropical leaf litter and implications for angiosperm paleobotany
R.J. Burnham 99
Latest occurrence of the extinct genus *Cedrelospermum* (Ulmaceae) in North America: *Cedrelospermum manchesteri* from Mexico
S. Magallón-Puebla and S.R.S. Cevallos-Ferriz 115
First occurrence of *Czekanowskia* (Gymnospermae, Czekanowskiales) in the United States
S. Ash 129
New data on the morphology and anatomy of the Devonian zosterophyll *Serrulacaulis* Hueber and Banks from Venezuela
C.M. Berry and D. Edwards 141
Monosulcate angiosperm pollen from the López de Bertodano Formation (upper Campanian–Maastrichtian–Danian) of Seymour Island, Antarctica
R.A. Askin 151
Multivariate analysis of Australian Eocene dispersed cuticle floras: influence of age, geography and taphonomy on biozonation
A.I. Rowett and A.D. Sparrow 165
A new species of *Discinites* from the Lower Permian of China
G. Zhifeng and B.A. Thomas 185
Earliest pollen-dominated microfloras from the early Late Carboniferous of the Tian Shan Mountains, NW China: their significance for the origin of conifers and palaeophytogeography
Y.-X. Zhou 193
Further studies on a late Tournaisian (Lower Carboniferous) flora from Loch Humphrey Burn, Scotland: spore taxonomy and ultrastructure
A.R. Hemsley, G. Clayton and J. Galtier 213
The pollen morphology of the tribes Loteae and Coronilleae (Papilionoideae: Leguminoseae). 2, *Lotus* L. and related genera
M.J. Díez and I.K. Ferguson 233
Pollen ultrastructure of *Hymenocardia* Wallich ex Lindley and comparison with other Euphorbiaceae
D. Lobreau-Callen and M. Suarez Cervera 257
Ultrastructural and chemical studies on Oligocene fossil wood from Bovey Tracey, Devon, UK
T.P. Jones 279
Taxonomy and stratigraphical distribution of *Verrucosisporites nitidus* Playford, 1964 and related species
E. Turnau, V.I. Avchimovitch, T.V. Byvscheva, G. Clayton, K.T. Higgs and B. Owens 289
Palynological observations on the "Nubian Sandstone", southwestern Libya
A.O. Tekbali 297
Late-Quaternary changes of plant biomass as recorded by pollen-stratigraphical data: a discussion of the problem at Valle di Castiglione, Italy
D. Magri 313

Pollen fossile de Leguminosae–Mimosoideae dans l'Oligocene inferieur du bassin de l'Ebre (Espagne)—implications paleoclimatiques et paleogeographiques
C. Cavagnetto and P. Guinet 327
Malpophyllum, a new name for the fossil genus *Palmophyllum* Conwentz, 1886
K.P.N. Kumaran 337
Origin of Land Plants, by L.E. Graham—R. Wayne 339